iFixit

Installing MacBook Pro 15"

Retina Display Mid 2012

MagSafe DC-In Board

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🔧 TOOLS:

- [MacBook Pro and Air 5-Point Pentalobe Screwdriver (1)](#)
- [Plastic Opening Tools (1)](#)
- [Spudger (1)](#)
- [T5 Torx Screwdriver (1)](#)

⚙ PARTS:

- [MacBook Pro 15" Retina MagSafe 2 DC-In Board (1)](#)

SUMMARY

If your MagSafe 2 power adapter has been damaged, you can replace it. Use this guide to install a replacement MagSafe DC-In Board.
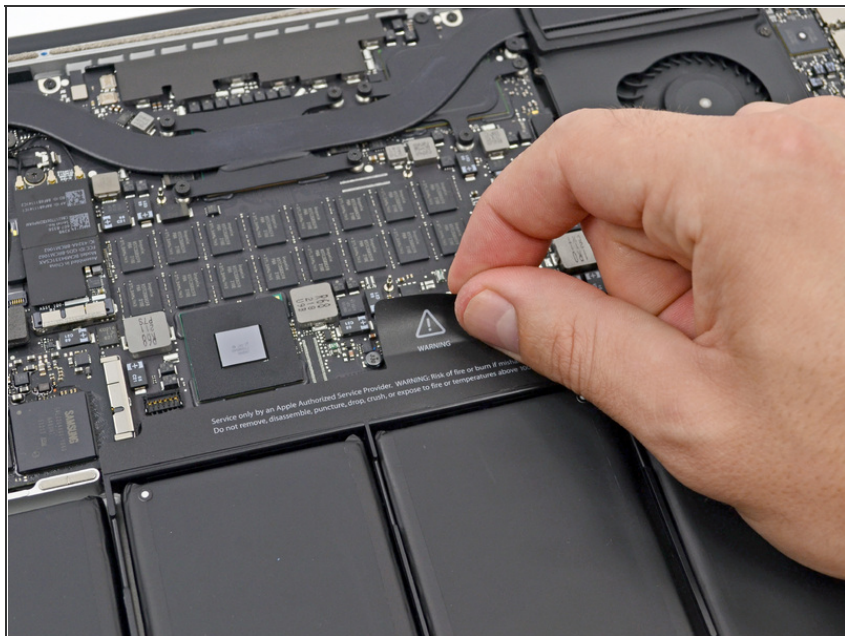
Step 1 — Lower Case

- Remove the following pentalobe screws securing the lower case to the MacBook Pro with Retina display.
  - Eight 3.0 mm
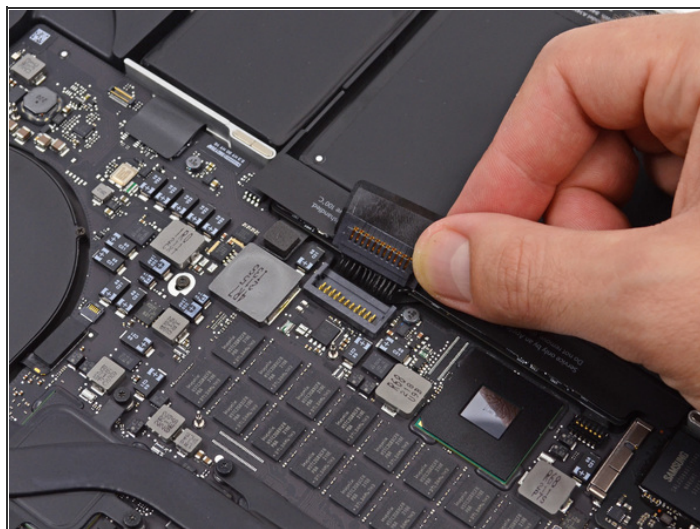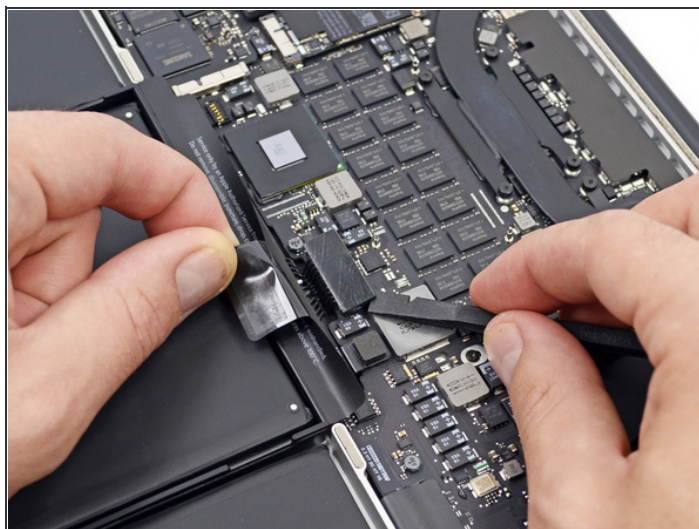 - Two 2.3 mm

Step 2

- Lifting from the edge nearest the clutch cover, lift the lower case off the MacBook Pro.
- Set the lower case aside.
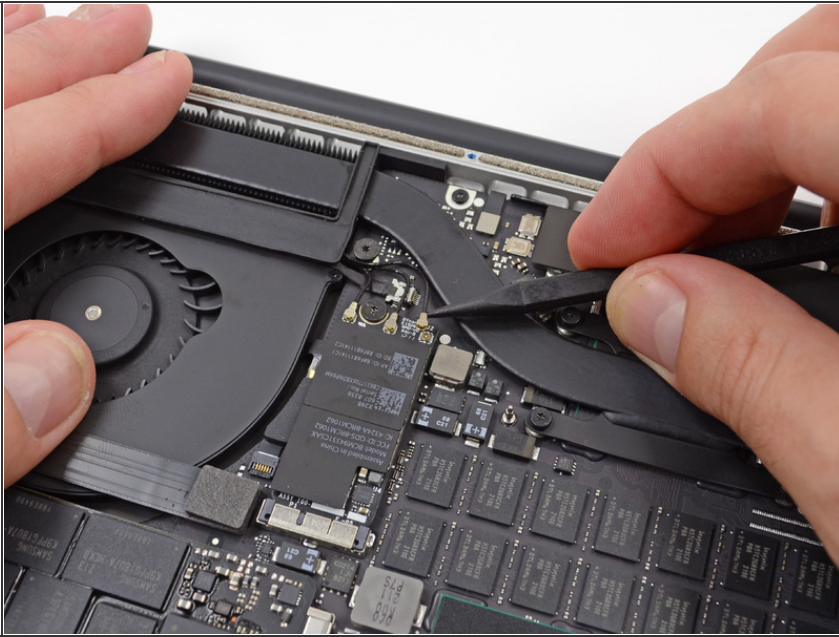
Step 3 — Battery Connector

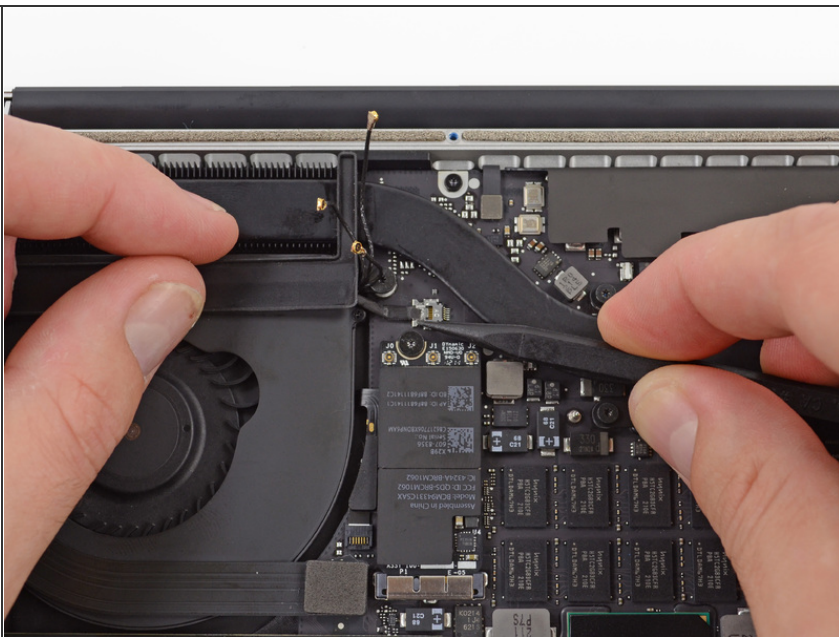- Peel back the warning label covering the battery connector.

Step 4

- Using the flat end of a spudger, gently pry the battery connector straight up out of its socket on the logic board.
- Bend the battery cables back and out of the way, ensuring that the battery connector doesn't accidentally make contact with the logic board.
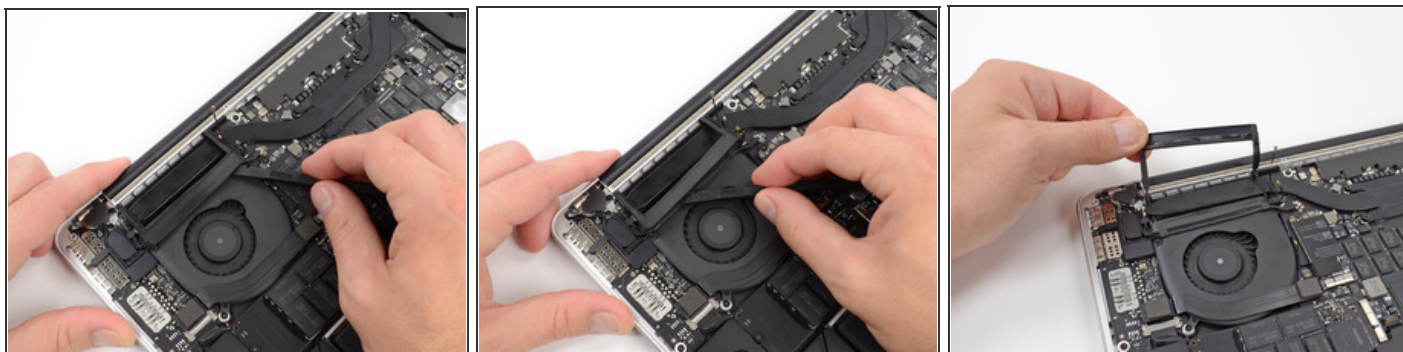
Step 5 — AirPort/Camera Cable

- Use the tip of a spudger to pry the three AirPort antenna cables straight up off of their sockets on the AirPort board.
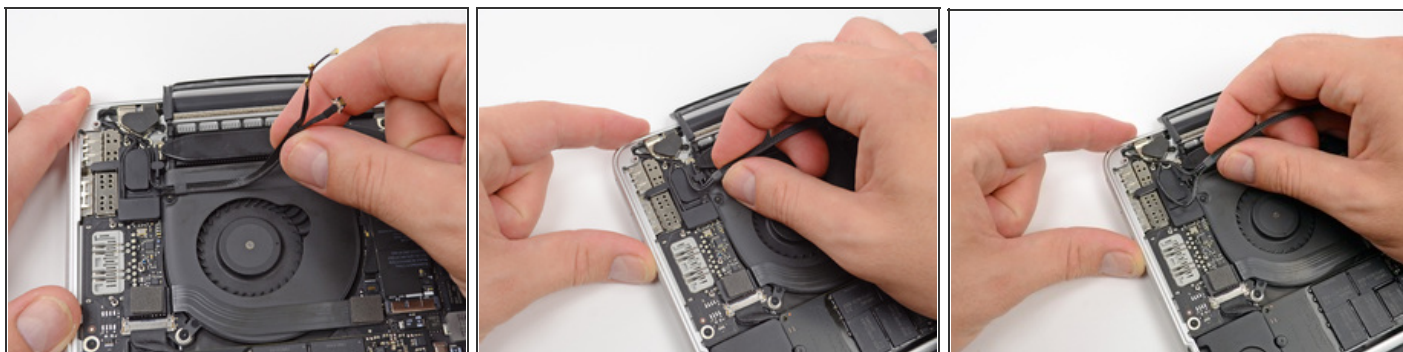
Step 6

- Use the tip of a spudger to push the camera cable connector out of its socket on the logic board.
  - Be sure to push parallel to the board, pushing first on one side, then the other to "walk" the connector out of its socket.

Step 7

- Insert the flat end of a spudger underneath the rubber heat sink cover on the right fan.

- Slide the spudger underneath the length of the cover, releasing the adhesive.

- Lift the cover and flip it back so that you can access the cables underneath.
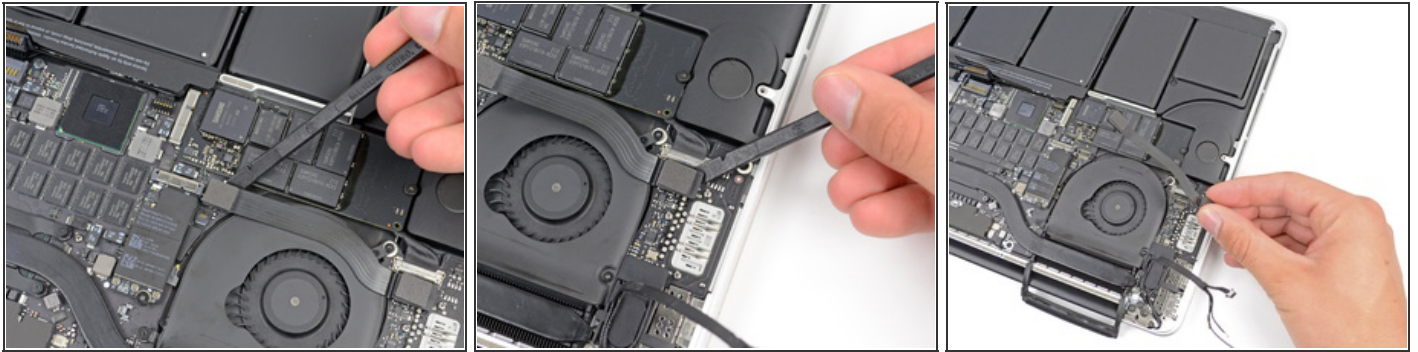
Step 8

- Use your fingers to pull the AirPort/Camera cables up off the fan.

  - The cables are adhered to the fan, so peel them up carefully to prevent ripping any.

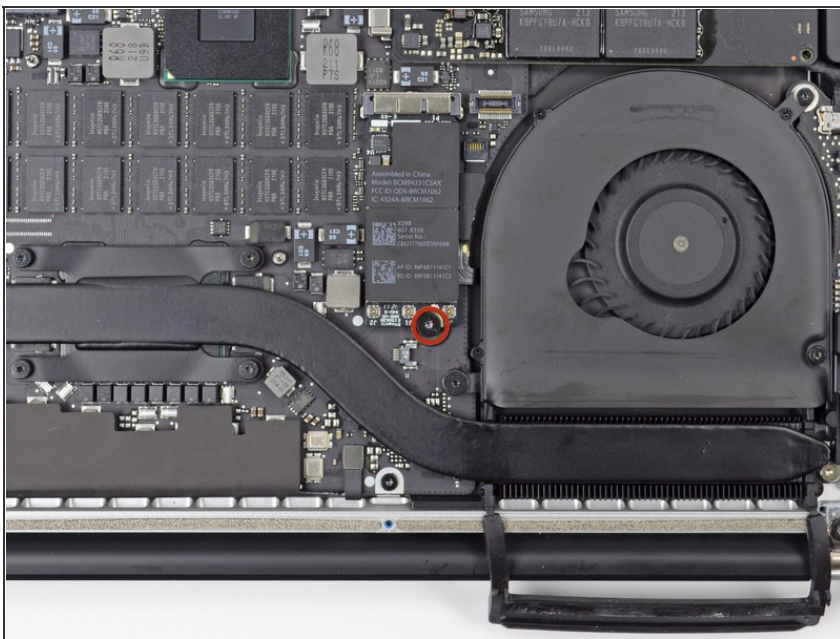- Carefully de-route the cables from the plastic cable guide.
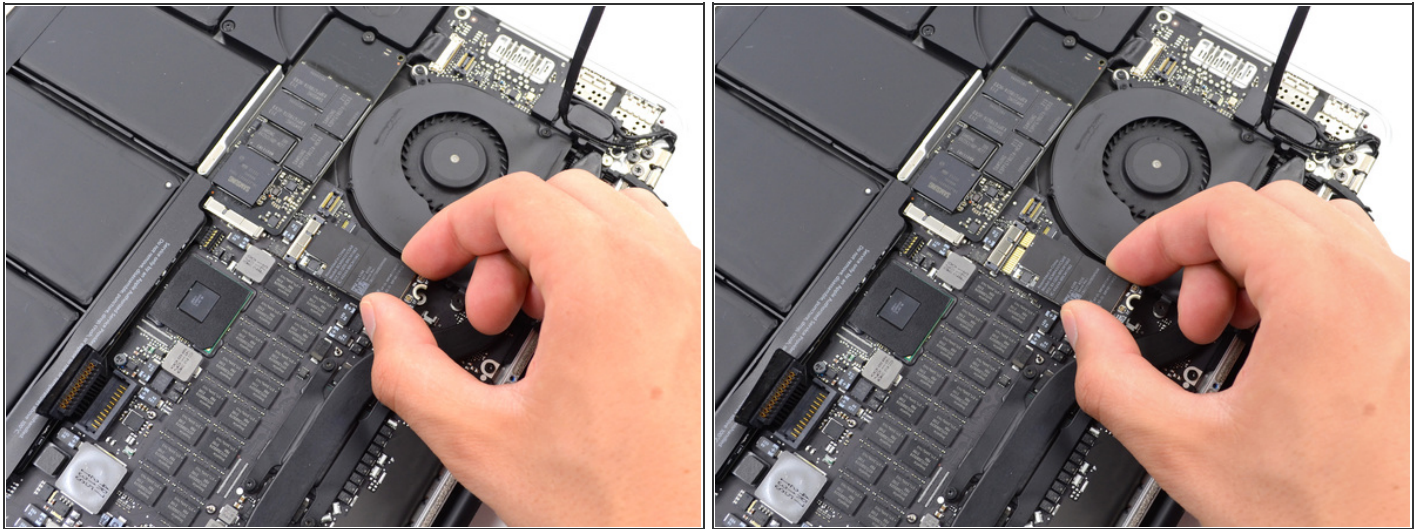
Step 9 — I/O Board Cable

- Using the flat end of a spudger, pry the I/O Board connector straight up out of its socket on the logic board.

- In a similar fashion, remove the I/O Board connector from its socket on the I/O Board.

- Remove the I/O Board cable from the MacBook Pro.
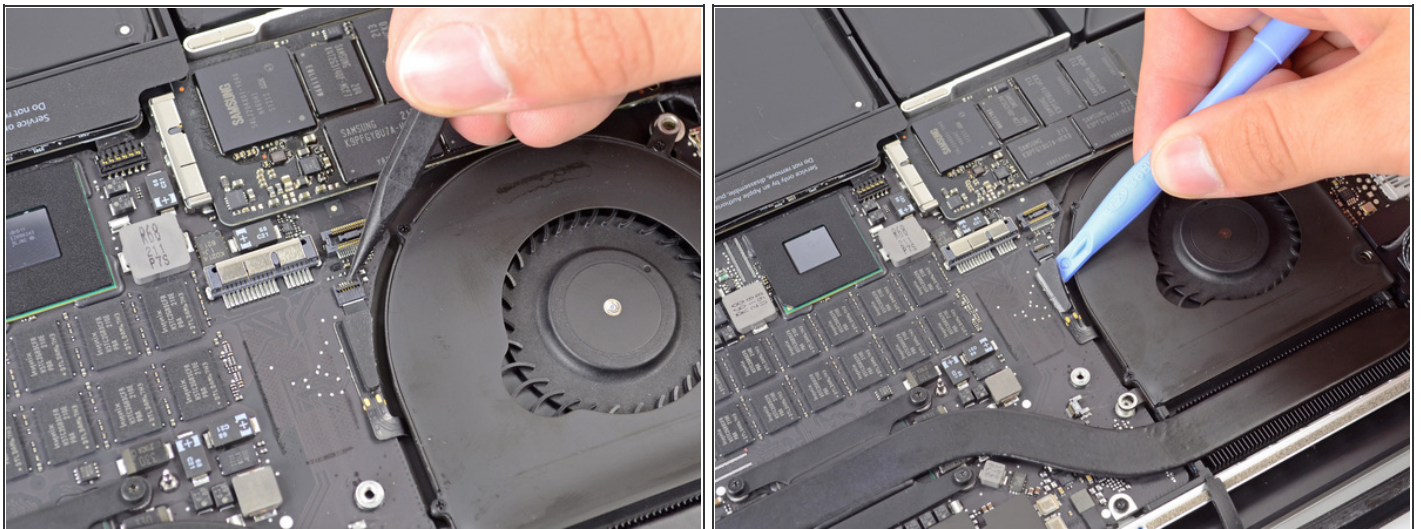
Step 10 — Right Fan

- Remove the single 2.9 mm T5 Torx screw securing the AirPort card to the logic board.

Step 11

- Grasp the side of the AirPort card and pull parallel to the logic board, removing the AirPort card from the MacBook Pro.
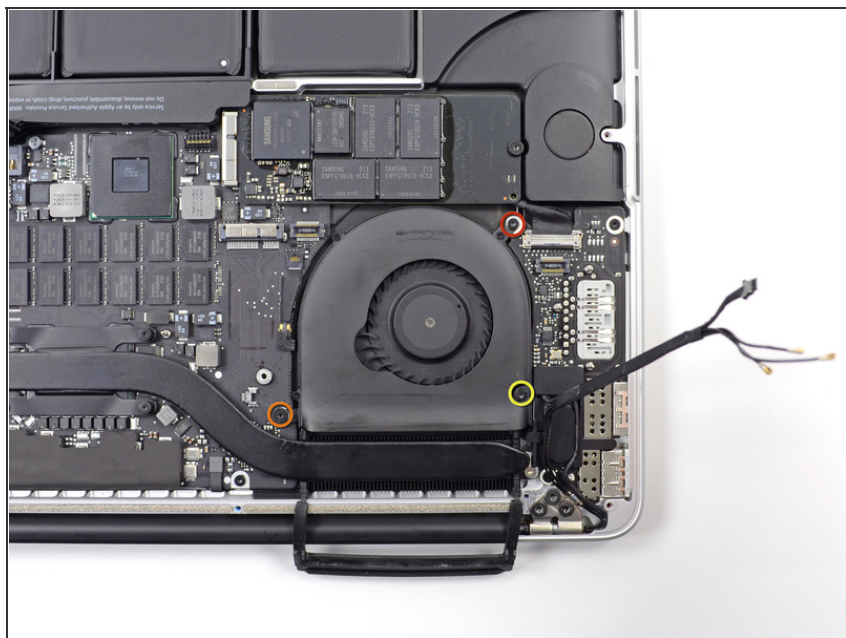
Step 12

- Use the tip of a spudger to flip up the retaining flap on the right fan ribbon cable ZIF socket.

- Be sure you are prying up on the hinged retaining flap, **not** the socket itself.

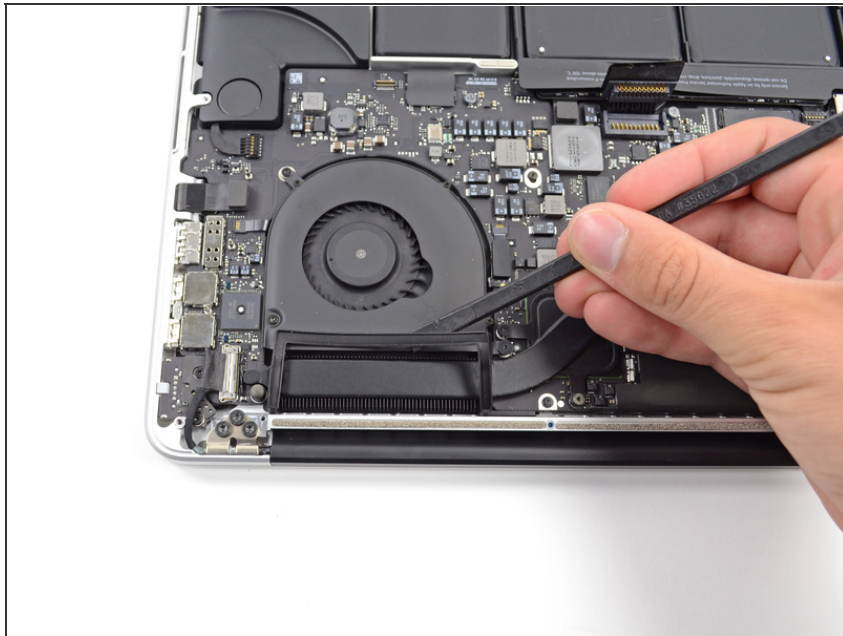- Gently pry up the right fan ribbon cable from the logic board.

Step 13

- Remove the following three screws securing the right fan to the logic board:
  - One 4.4 mm T5 Torx screw
  - One 3.9 mm T5 Wide Head Torx screw
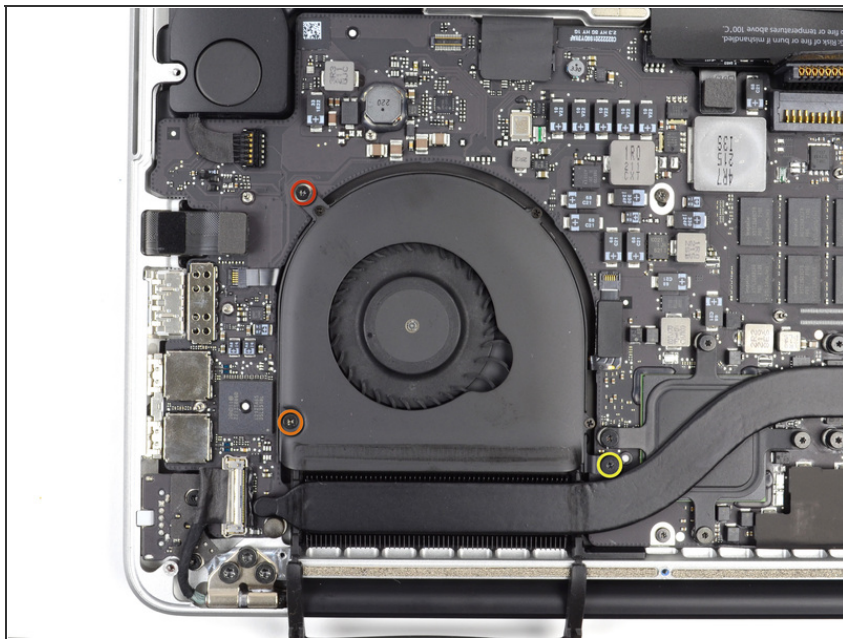 - One 5.0 mm T5 Torx screw

Step 14

- Lift and remove the right fan out from the MacBook Pro.
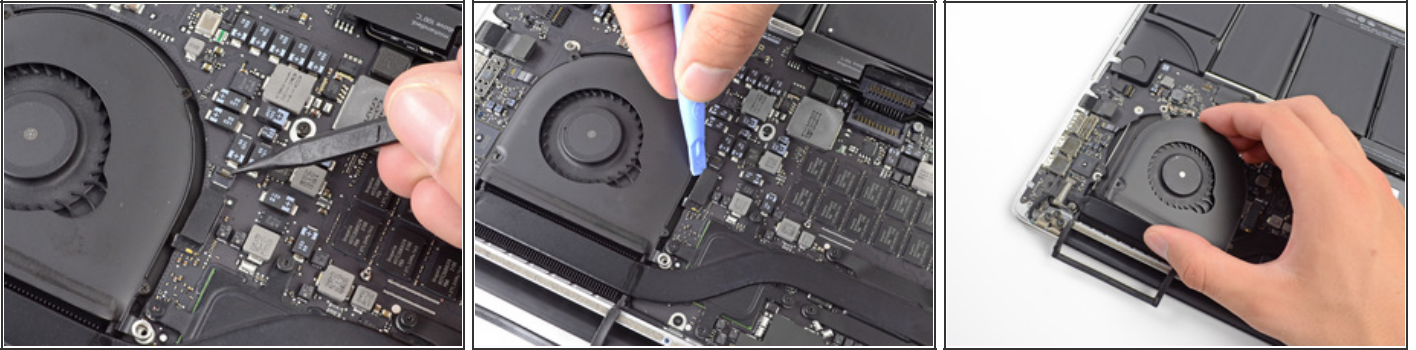
Step 15 — Left Fan

- Use the flat end of a spudger to lift the rubber heat sink cover up off the left fan.

Step 16

- Remove the following three screws securing the left fan to the logic board:
  - One 3.9 mm T5 Wide Head Torx screw
  - One 4.4 mm T5 Torx screw
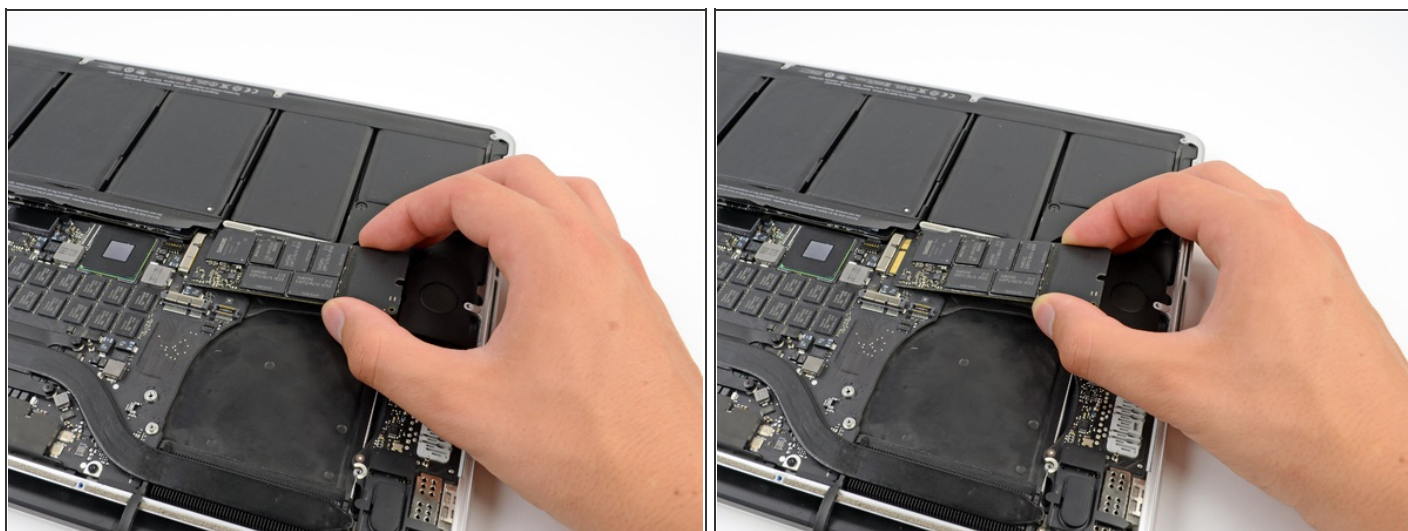 - One 5.0 mm T5 Torx screw

Step 17

- Use the tip of a spudger to flip up the retaining flap on the left fan ribbon cable ZIF socket.

- Be sure you are prying up on the hinged retaining flap, **not** the socket itself.

- Starting at the top of the cable, slide a plastic opening tool under the left fan cable to free it from the logic board.

  - Use caution when freeing the cable, as it is strongly adhered to the logic board.

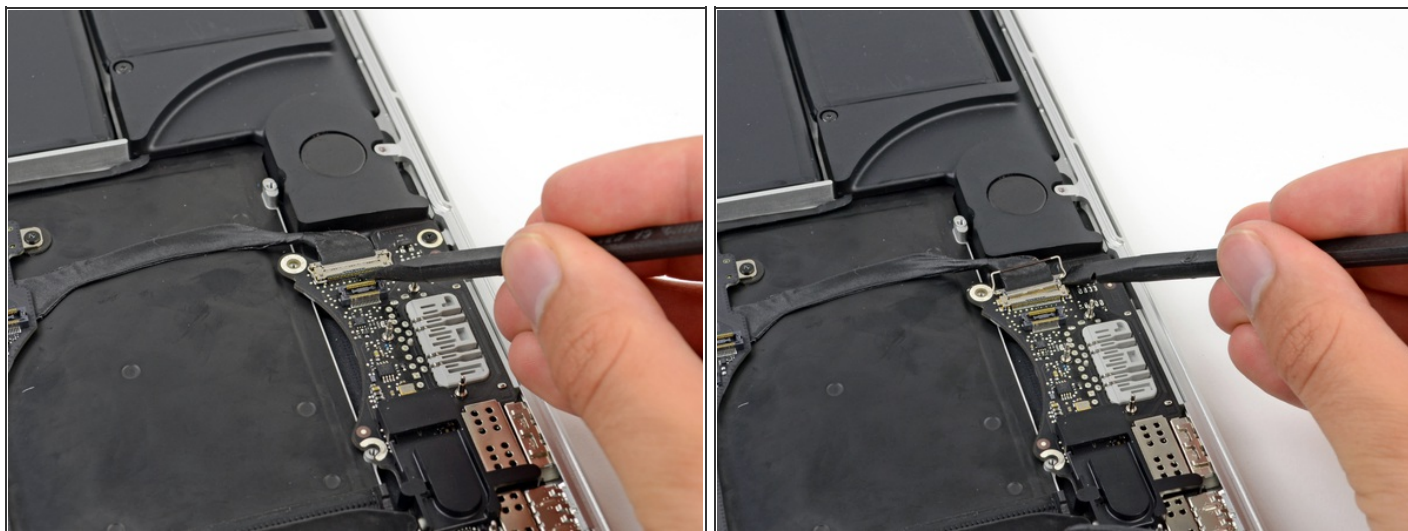- Lift the left fan out of the device.

Step 18 — SSD

- Remove the single 3.1 mm T5 Torx screw securing the SSD to the logic board.

Step 19

- Slightly lift the rightmost side of the SSD and firmly slide it straight away out of its socket on the logic board.
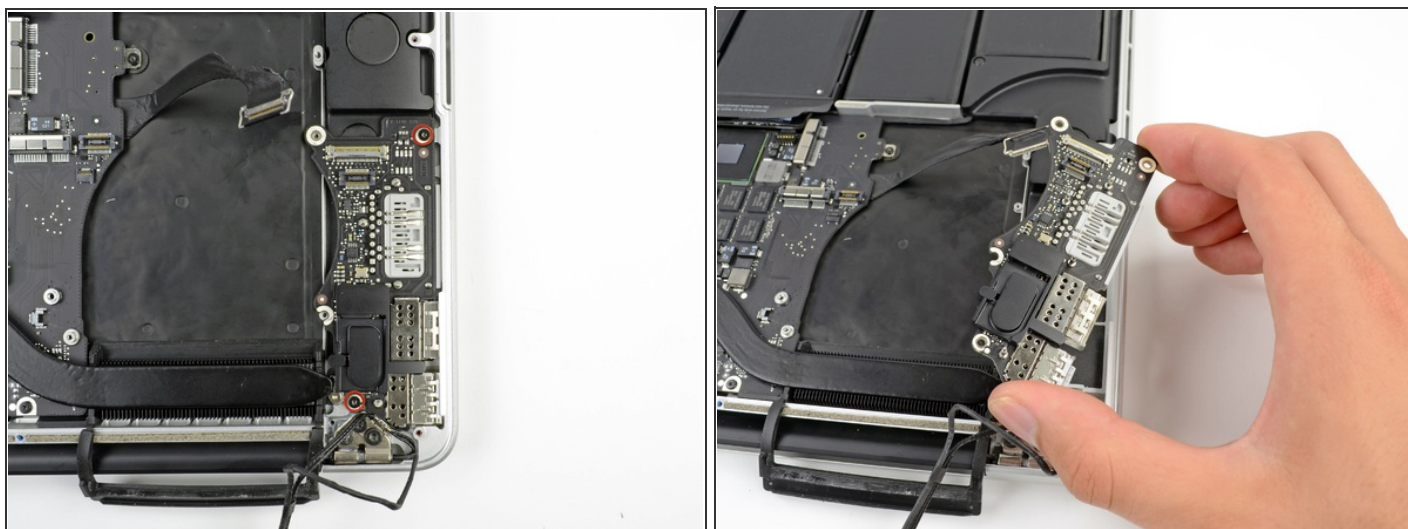
Step 20 — I/O Board

- Use the tip of a spudger to flip up the I/O board data cable lock and rotate it toward the battery side of the computer.
- Use the flat end of a spudger to slide the I/O board data cable straight out of its socket on the logic board.
- Do not lift up on the I/O board data cable, as its socket is very fragile. Pull the cable perpendicular to the face of the logic board.
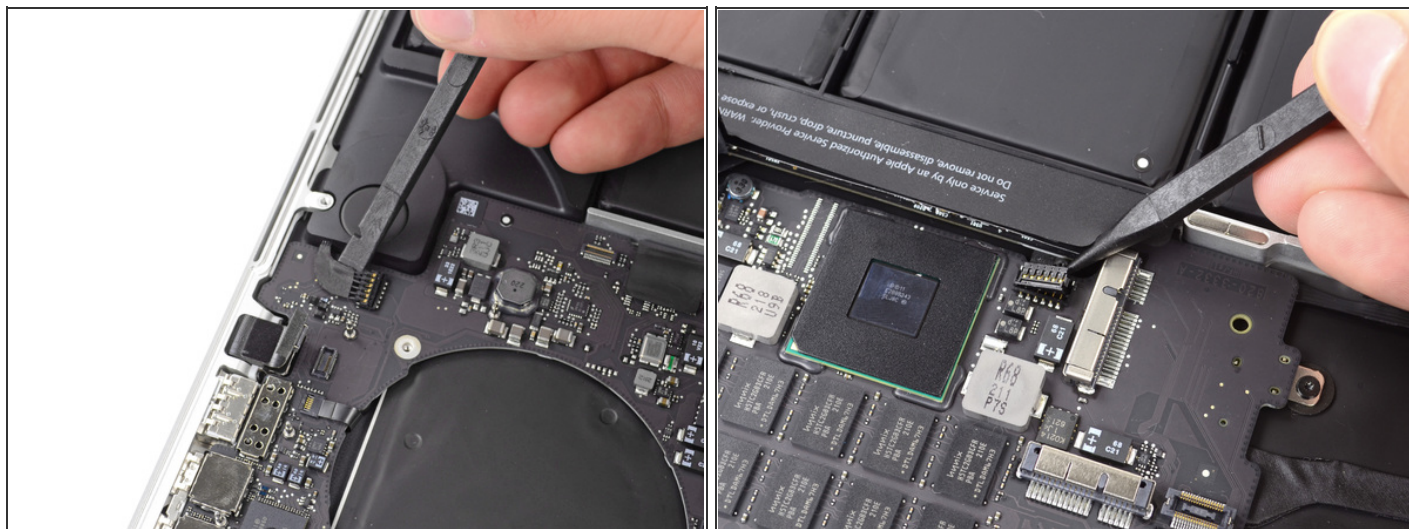
Step 21

- Remove the two 3.1 mm T5 Torx screws securing the I/O board to the logic board.

- Carefully lift the I/O board and remove it from the lower case.

Step 22 — Logic Board Assembly

- Use the flat end of a spudger to pry the headphone jack connector up from its socket on the logic board.
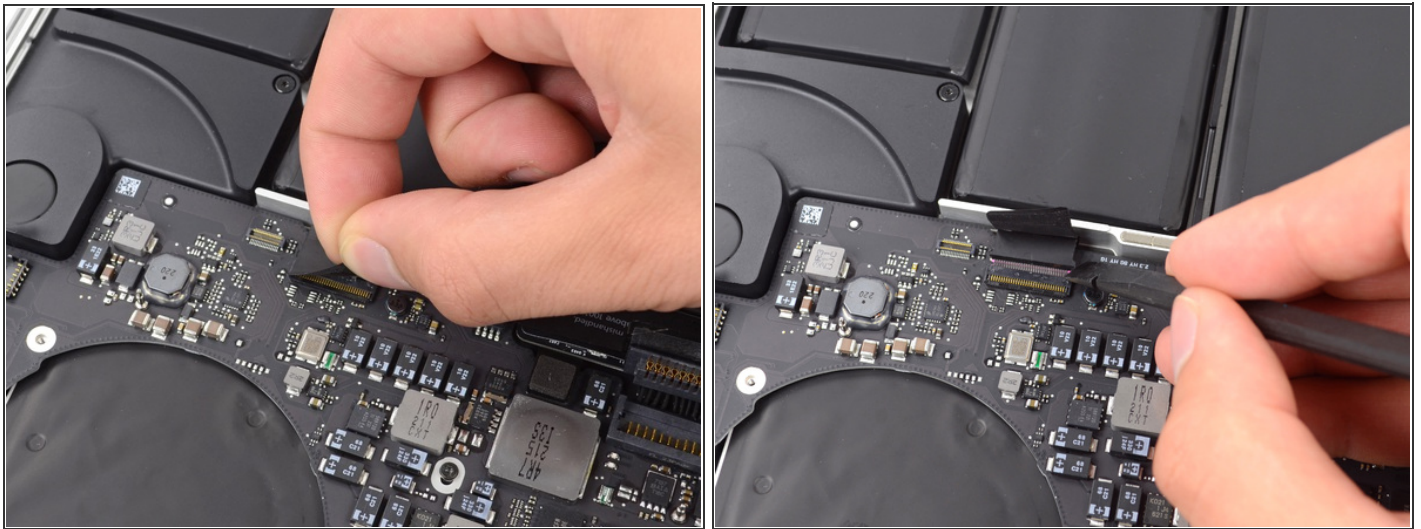
Step 23

- Use the flat end of a spudger to pry the left speaker connector up and out of its socket on the logic board.

- Use the tip of a spudger to pry the right speaker connector up and out of its socket on the logic board

- Be sure to pry on the cable head, and not on the socket itself. Prying on the socket may cause it to separate from the logic board.
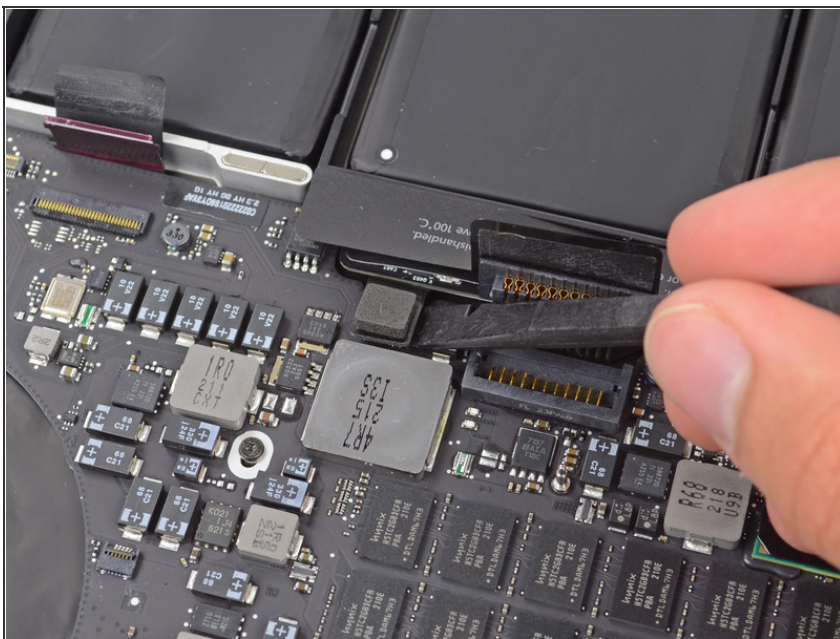
Step 24

- Use the flat end of a spudger to flip up the retaining flap on the keyboard ribbon cable ZIF socket.
- Be sure you are prying up on the hinged retaining flap, **not** the socket itself. ⚠️
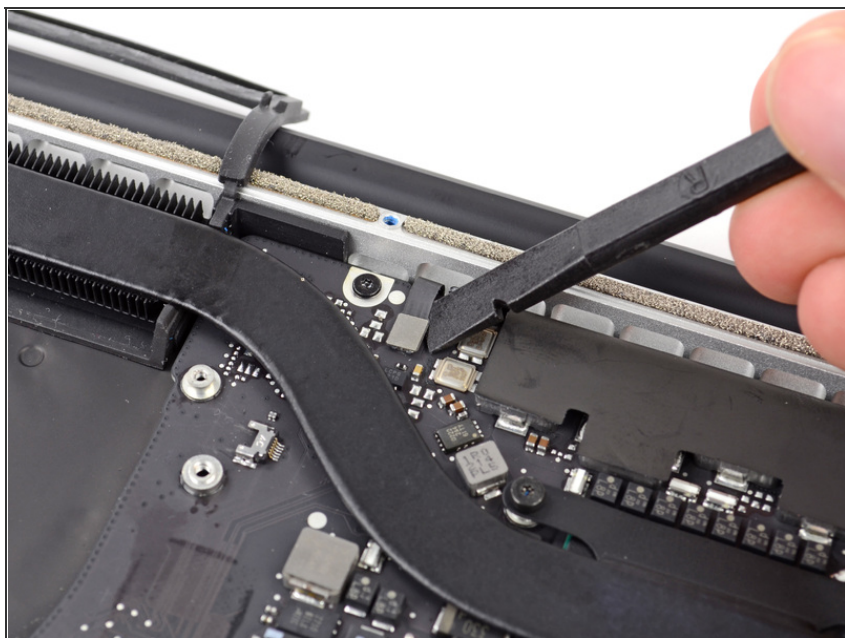- Use the flat end of a spudger to pull the keyboard ribbon cable out of its socket.

Step 25

- Use the flat end of a spudger to pry the battery indicator connector up from its socket on the logic board.
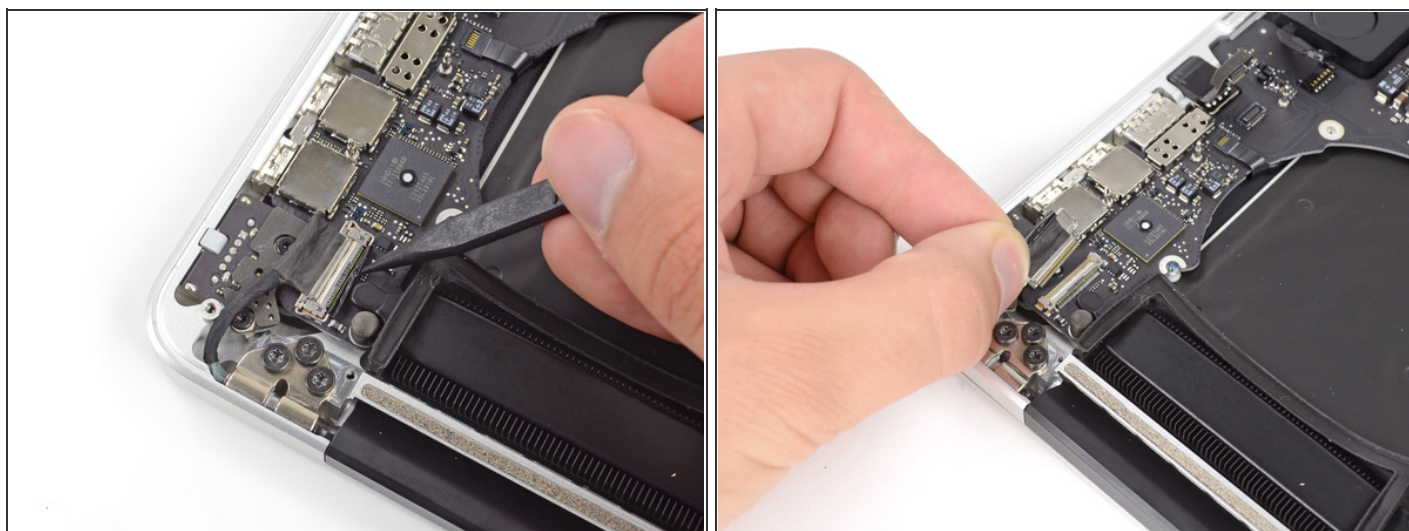
Step 26

- Use the flat end of a spudger to pry the keyboard backlight connector up from its socket on the logic board.

Step 27

- Use the tip of a spudger or your fingernail to flip up the retaining flap on the microphone ribbon cable ZIF socket.

- Be sure you are prying up on the hinged retaining flap, **not** the socket itself.

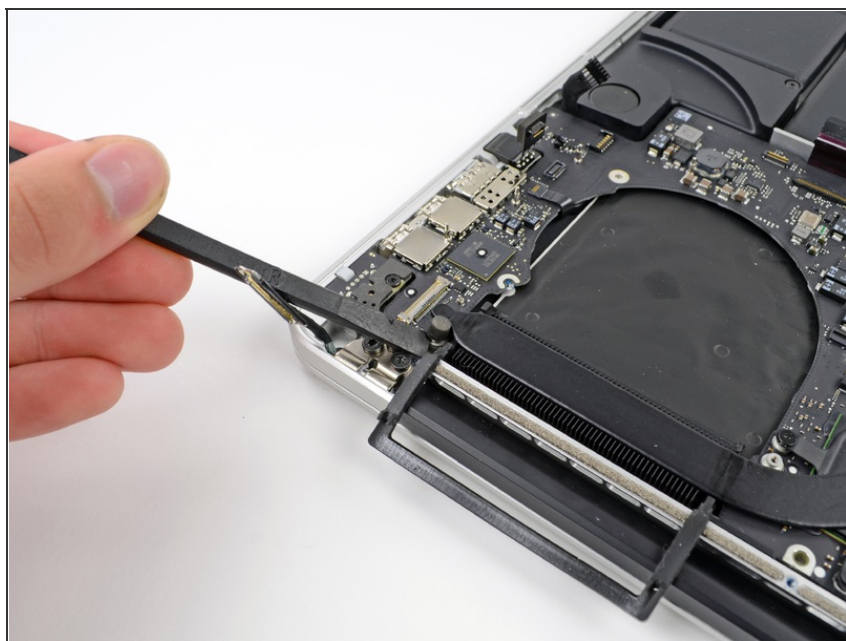- Pull the microphone ribbon cable out of its socket.

Step 28

- Use the tip of a spudger to pry the display data cable lock and rotate it toward the DC-In side of the computer.

- Pull the display data cable straight out of its socket on the logic board.

- Do not lift up on the display data cable, as its socket is very fragile. Pull the cable parallel to the face of the logic board.
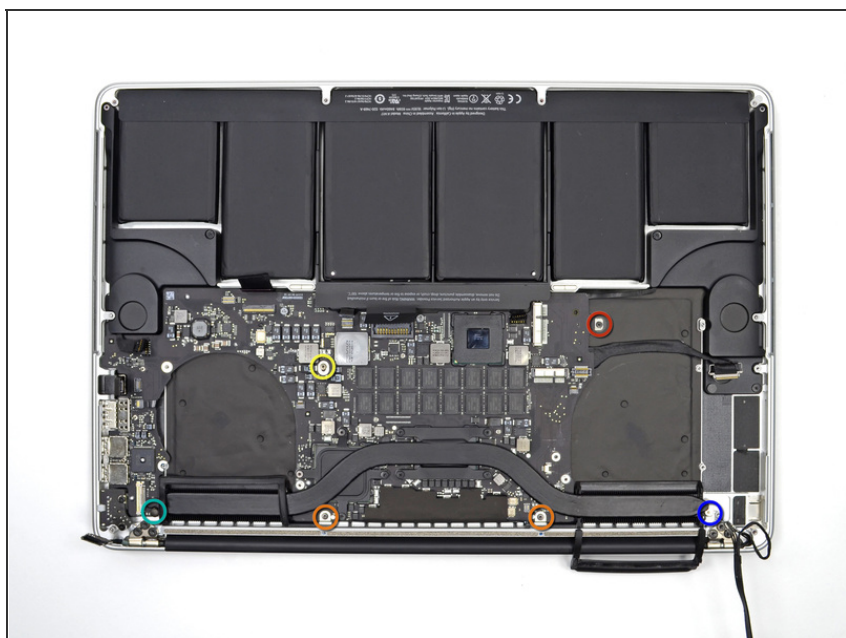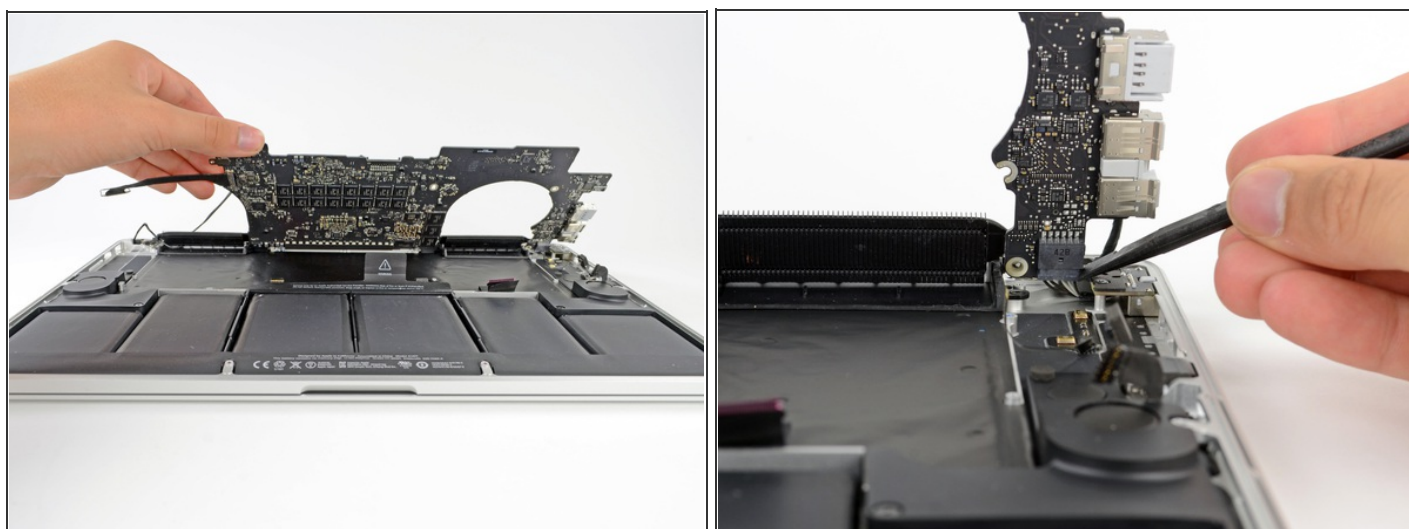
Step 29

- Use the flat end of a spudger to carefully pry off the rubber screw cap on the raised screw head near to the MagSafe 2 connector.
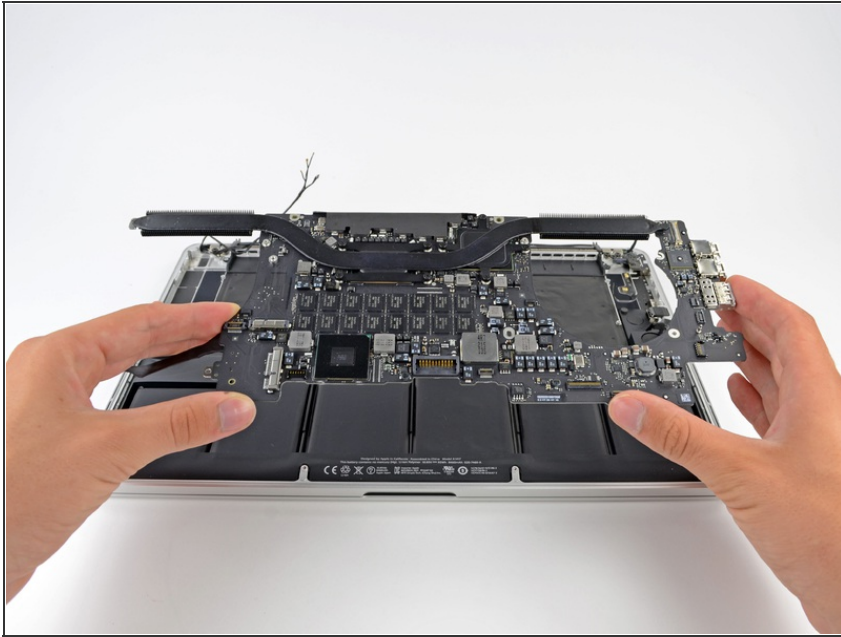
Step 30

- Remove the following six screws securing the logic board to to the upper case:
  - One 2.6 mm T5 Torx screw
  - Two 5.8 mm T5 Torx screws
  - One 3.8 mm T5 Torx screw
  - One 5.2 mm Raised Head T5 Torx screw
  - One 3.5 mm T5 Torx screw

Step 31

- Lifting from the side nearest the battery, rotate the logic board toward the top of the MacBook Pro.
- Using the flat end of a spudger, carefully push the MagSafe 2 connector out of its socket on the bottom of the logic board.

Step 32

- Remove the logic board assembly from the MacBook Pro.

Step 33 — MagSafe DC-In Board

- Rotate the device 180 degrees to more easily access the rest of the internal components.

- Remove the two 2.5 mm T5 Torx screws securing the MagSafe DC-In board to the upper case.

- Slide the MagSafe DC-In board towards the right free it from its recess within the upper case.

- Lift and remove the MagSafe DC-In board out of the upper case assembly.

To reassemble your device, follow these instructions in reverse order.

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